

Title (en)

Rotary flow control apparatus.

Title (de)

Drehbarer Verteiler für Flüssigkeit.

Title (fr)

Appareil rotatif de contrôle de liquide.

Publication

EP 0231577 A1 19870812 (EN)

Application

EP 86306613 A 19860827

Priority

US 77317185 A 19850906

Abstract (en)

A flow control apparatus for selectively directing fluid from a fluid supply line to a number of outlet lines includes an outer member (14) having an outer wall, a throughbore forming an annular inner wall (24) and a plurality of spaced, discharge bores (28) formed therebetween, and an inner member (12) having an annular outer wall (34) received within the throughbore of the outer member so that their annular walls face one another. The outer member is rotatable with respect to the inner member to selectively align each of its discharge bores with the fluid passageway (38) of the inner member, and an interlock mechanism (84) is provided to ensure accurate alignment therebetween. The facing surfaces of the inner and outer members are sealed at the fluid passageway by a seal (64) mounted at one end of a driven piston (42) which is axially movable within the fluid passageway.

IPC 1-7

F15B 13/06; **F16K 11/06**

IPC 8 full level

F15B 13/06 (2006.01); **F16K 11/085** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

- US 4569371 A 19860211 - DOLEJS CHARLES A [US], et al
- US 3021869 A 19620220 - ROSS JAMES F
- US 3096788 A 19630709 - TALBOT WILLIAM Y, et al
- US 3157199 A 19641117 - JOHN BANKS, et al
- CH 584374 A5 19770131 - CYPHELLY IVAN J

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DOCDB simple family (publication)

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